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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,020	01/12/2005	Kazuhide Mizutani	DK-US030061	9469
22919 7590 01/26/2011 GLOBAL IP COUNSELORS, LLP		EXAM	IINER	
1233 20TH STREET, NW, SUITE 700			ALI, MOHAMMAD M	
WASHINGTO	ON, DC 20036-2680		ART UNIT	PAPER NUMBER
			3784	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/521,020	MIZUTANI ET AL.		
Examiner	Art Unit		
MOHAMMAD ALI	3784		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

earned	patent term	aajustment.	286 37	OFR 1.704(I	S).

Period fo	r Reply
WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, HEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. accord time may be available under the provisions of 37 CFR 1.136(a). In no event, nowever, may a reply be timely lifed SIX (b) MONTHS from the mailing date of this communication. All of the communications are considered by the second of the communication of the
Status	
2a)	Responsive to communication(s) filed on 18 November 2010. This action is FINAL. 2b ☑ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Dispositi	on of Claims
5) 🗆 6) 🔯 7) 🗀	Claim(s) 5-7.11 and 12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u> is/are 1 is/are rejected.</u> Claim(s) is/are objected to. Claim(s) is/are objected to requirement.
Applicati	on Papers
10)	The specification is objected to by the Examiner. The drawing(s) filled onis/are: a)accepted or b)objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority u	nder 35 U.S.C. § 119
a)[Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). ee the attached detailed Office action for a list of the certified copies not received.
Attachmen	(s)

- 1) Notice of References Cited (PTO-892)
- Notice of Draftsporson's Patent Drawing Freedow (PTO-942).
 Information Disclosure Statement(s) (PTO/SB/08). Paper No(s)/Mail Date 11/04/10, 01/12/05, 10/11/07 & 09/02/08.
- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.
- 5) Notice of Informal Patent Application
- 6) Other: __

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Claims 5-7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unezaki et al (JP 2002-357377A) in view of Taira (US 7,003,980).

Unezake et al disclose an air conditioning system and method comprising existing refrigerant piping (4, 6) that was an existing air conditioner (See Fig 12) and contains residue of an existing of an refrigerant oil, a heat source unit (11, 28) and an user unit (23 evaporator/interior unit Fig. 12) that are connected together by the existing refrigerant piping (4, 6) with a replace working refrigerant disposed therein; and an oil collecting device (9) that is configured such that after the existing refrigerant oil has been changed and before the refurbished air conditioner is run in a normal operating mode, the oil collecting device (9) can draw in the replaced working refrigerant that is being circulated through the air conditioner and separate the existing refrigerant oil that is carried with the replaced working refrigerant, the replaced working refrigerant being an HFC refrigerant at least wt% of 32 See Figs. 12, 13, 22-23, 25 and 27 and the translation. See also Para [0027] of machine translation. Unezaki et al disclose the invention substantially as claimed as stated above except Regarding R32 with at least 40 % without R134a is a well known refrigerant in the market. Taira teaches the use of R23 refrigerant mixed with R125 in varying % ranging from 40/60% to100/0 % mixed refrigerant for the purpose of having a high COP energy efficiency refrigerant. See Fig. 5, column 7, lines 58-65. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the air conditioner of Unezaki in view of Taira such that a refrigerant with mixture of R32 and R125 with at

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least 40 wight % of R 32 could be provided in order to achieve the benefit of achieving a high COP energy efficient refrigerant.

Regarding claims 7 and 11, the above combined disclosure of Unezake et al and Taira disclose the limitations of claims 7 and 11.

Regarding claims 5 and 6, Unezaki et al disclose that changing over a refrigerant circuit being composed of the existing refrigerant piping (4, 6) with the new heat source and the new use user unit (see Para[0051] to normal operation step which has the oil collecting device (as taught by (numeral 9) attached thereto. Regarding fifth step, it is an obvious choice of an individual skilled in the art to perform a required operation in a specific step or other than a specific step since the main objective to wash out and replace the existing mineral non-friendly environmental refrigerant oil by an energy efficient and environmentally friendly and since there is no criticality or unexpected result from it.

Regarding claim12, Unezaki et al disclose that a wet state through the existing refrigerant line because when running the refrigerant cycle during washing cycle the refrigerant including refrigerant oils pass through the popes and become wet.

Response to Arguments

Applicant's arguments with respect to claims 5-7, 11 and 12 have been considered but are moot in view of the new ground(s) of rejection as explained above.

The Examiner beliefs that the above action contains the justified answer to the arguments of justification of using a mixture of R32 and R125 with at least 40 weight %

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of R32 and using the new replaced unit by replacing the temporary washing station 11 as discussed in means for solution on page 2 and Para [0051] of page 10 of the translation to Unezaki Patent.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMMAD ALI whose telephone number is (571)272-4806. The Examiner can normally be reached on Monday through Thursday from 8.30 am to 12 Noon and from 1 pm to 5.30 pm and on Friday from 6 am to 11.30 am and from 2.30 pm to 5 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jules Frantz can be reached on 571-272-6681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Primary Examiner, Art Unit 3784